

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	ATTY DOCKET NO. 23631.00	SERIAL NO.
APPLICANT William M. Shrum III et al.		
FILING DATE		GROUP

U.S. PATENT DOCUMENTS

Examiner Initials	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE If appropriate
	2003/0121730	7/2003	Liu et al.			
	4,002,973	1/1977	Wiesendanger t al.			
	4,330,838	5/1982	Yoneda et al.			
	4,458,788	7/1984	LePore, P.E.			
	4,512,442	4/1985	Moore et al.			
	4,930,604	6/1990	Schienda et al.			
	5,027,299	6/1991	Uetani, K.			
	5,042,621	8/1991	Ovaska et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 0 367 388	8/1989	Europe				
	WO 01/14237	3/2001	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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	5,522,480	6/1996	Hofmann, H.P.			
	5,787,020	7/1998	Molliere et al.			
	5,817,994	10/1998	Fried et al.			

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